

Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW121318\  
 Data File : VW007410.D  
 Acq On : 11 Dec 2018 23:11  
 Operator : SY/AP  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 12 05:53:58 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W121118S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 11 02:58:16 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

|       | Compound                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0   | 96    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.349 | 0.298 | 14.6  | 94    | 0.00     |
| 3 P   | Chloromethane               | 0.293 | 0.273 | 6.8   | 96    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.343 | 0.329 | 4.1#  | 97    | 0.00     |
| 5 T   | Bromomethane                | 0.231 | 0.230 | 0.4   | 99    | 0.00     |
| 6 T   | Chloroethane                | 0.189 | 0.185 | 2.1   | 93    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.309 | 0.299 | 3.2   | 97    | 0.00     |
| 8 T   | Diethyl Ether               | 0.242 | 0.232 | 4.1   | 86    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.509 | 0.508 | 0.2   | 97    | 0.01     |
| 10 T  | Methyl Iodide               | 0.844 | 0.853 | -1.1  | 96    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.038 | 0.036 | 5.3   | 95    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.490 | 0.500 | -2.0# | 99    | 0.00     |
| 13 T  | Acrolein                    | 0.025 | 0.027 | -8.0  | 105   | 0.00     |
| 14 T  | Allyl chloride              | 0.723 | 0.722 | 0.1   | 96    | 0.00     |
| 15 T  | Acrylonitrile               | 0.102 | 0.100 | 2.0   | 92    | 0.00     |
| 16 T  | Acetone                     | 0.097 | 0.095 | 2.1   | 91    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.487 | 1.496 | -0.6  | 99    | 0.00     |
| 18 T  | Methyl Acetate              | 0.263 | 0.255 | 3.0   | 92    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 0.740 | 0.751 | -1.5  | 94    | 0.00     |
| 20 T  | Methylene Chloride          | 0.615 | 0.551 | 10.4  | 97    | 0.01     |
| 21 T  | trans-1,2-Dichloroethene    | 0.549 | 0.560 | -2.0  | 97    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.390 | 1.414 | -1.7  | 95    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.777 | 0.794 | -2.2  | 94    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.939 | 0.949 | -1.1  | 96    | 0.00     |
| 25 T  | 2-Butanone                  | 0.126 | 0.129 | -2.4  | 93    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.622 | 0.622 | 0.0   | 96    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.601 | 0.612 | -1.8  | 95    | 0.00     |
| 28 T  | Bromochloromethane          | 0.353 | 0.337 | 4.5   | 89    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.080 | 0.080 | 0.0   | 90    | 0.00     |
| 30 C  | Chloroform                  | 1.022 | 1.032 | -1.0# | 96    | 0.00     |
| 31 T  | Cyclohexane                 | 0.862 | 0.806 | 6.5   | 95    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.896 | 0.905 | -1.0  | 97    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.555 | 0.522 | 5.9   | 86    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 94    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.303 | 0.292 | 3.6   | 86    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.456 | 0.468 | -2.6  | 97    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.170 | 0.166 | 2.4   | 94    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.496 | 0.523 | -5.4  | 98    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.552 | 0.582 | -5.4  | 99    | 0.00     |
| 40 TM | Benzene                     | 1.266 | 1.319 | -4.2  | 95    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.097 | 0.099 | -2.1  | 90    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.398 | 0.413 | -3.8  | 95    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.335 | 0.344 | -2.7  | 93    | 0.00     |
| 44 TM | Trichloroethene             | 0.361 | 0.379 | -5.0  | 98    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.293 | 0.314 | -7.2# | 97    | 0.00     |

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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

|       | Compound                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T  | Dibromomethane              | 0.166 | 0.172 | -3.6  | 97    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.436 | 0.457 | -4.8  | 95    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.172 | 0.168 | 2.3   | 88    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.003 | 0.003 | 0.0   | 97    | 0.00     |
| 50 S  | Toluene-d8                  | 1.135 | 1.129 | 0.5   | 88    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.158 | 0.168 | -6.3  | 95    | 0.00     |
| 52 CM | Toluene                     | 0.819 | 0.873 | -6.6# | 97    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.424 | 0.457 | -7.8  | 99    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.490 | 0.520 | -6.1  | 97    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.226 | 0.243 | -7.5  | 99    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.272 | 0.289 | -6.2  | 94    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.372 | 0.410 | -10.2 | 101   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.125 | 0.133 | -6.4  | 88    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.106 | 0.118 | -11.3 | 101   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.286 | 0.322 | -12.6 | 102   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.224 | 0.246 | -9.8  | 104   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.417 | 0.434 | -4.1  | 93    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 97    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.360 | 0.357 | 0.8   | 101   | 0.00     |
| 65 PM | Chlorobenzene               | 1.042 | 1.084 | -4.0  | 102   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.367 | 0.385 | -4.9  | 104   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.792 | 1.905 | -6.3# | 103   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.697 | 0.737 | -5.7  | 105   | 0.00     |
| 69 T  | o-Xylene                    | 0.651 | 0.696 | -6.9  | 100   | 0.00     |
| 70 T  | Styrene                     | 1.051 | 1.156 | -10.0 | 106   | 0.00     |
| 71 P  | Bromoform                   | 0.188 | 0.192 | -2.1  | 101   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 103   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.831 | 3.949 | -3.1  | 105   | 0.00     |
| 74 T  | N-amyl acetate              | 0.696 | 0.730 | -4.9  | 104   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.567 | 0.594 | -4.8  | 98    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.412 | 0.385 | 6.6   | 83    | 0.00     |
| 77 T  | Bromobenzene                | 0.849 | 0.894 | -5.3  | 102   | 0.00     |
| 78 T  | n-propylbenzene             | 4.312 | 4.610 | -6.9  | 104   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.609 | 2.693 | -3.2  | 100   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.219 | 3.390 | -5.3  | 105   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.187 | 0.187 | 0.0   | 100   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.750 | 2.823 | -2.7  | 102   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.837 | 2.975 | -4.9  | 103   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.313 | 3.467 | -4.6  | 105   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.872 | 4.077 | -5.3  | 109   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.479 | 3.616 | -3.9  | 102   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.693 | 1.761 | -4.0  | 103   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.702 | 1.785 | -4.9  | 107   | 0.00     |
| 89 T  | n-Butylbenzene              | 3.225 | 3.384 | -4.9  | 104   | 0.00     |

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Max. RRF Dev : 20% Max. Rel. Area : 150%

|      | Compound                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.619 | 0.661 | -6.8 | 108   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.517 | 1.581 | -4.2 | 106   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.114 | 0.113 | 0.9  | 96    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.044 | 1.089 | -4.3 | 106   | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.554 | 0.565 | -2.0 | 103   | 0.00     |
| 95 T | Naphthalene                 | 1.997 | 2.102 | -5.3 | 100   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.907 | 0.961 | -6.0 | 102   | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 6